

## (-)-Sparteine Datasheet

4<sup>th</sup> Edition (Revised in July, 2016)

### [ Product Information ]

**Name:** (-)-Sparteine

**Catalog No.:** CFN90180

**Cas No.:** 24915-04-6

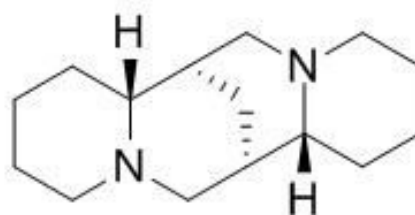
**Purity:** > 98%

**M.F:** C<sub>15</sub>H<sub>26</sub>N<sub>2</sub>

**M.W:** 234.38

**Physical Description:** Powder

**Synonyms:** Isosparteine



### [ Intended Use ]

1. Reference standards;
2. Pharmacological research;
3. Synthetic precursor compounds;
4. Intermediates & Fine Chemicals;
5. Others.

### [ Source ]

The herbs of *Parochetus communis*.

### [ Biological Activity or Inhibitors ]

Sparteine, an antiarrhythmic and oxytocic drug, is metabolised by N 1 -oxidation , the

defective metabolism of sparteine was found to have a genetic basis.; sparteine-N 1-oxidation appears to be determined by two allelic genes at a single locus where nonmetabolisers are homozygous for an autosomal recessive gene.<sup>[1]</sup>

Codeine O-demethylation to morphine is catalysed by the genetic polymorphic sparteine oxygenase (CYP2D6), sparteine supports the theory that the analgesic effect of codeine depends on its O-demethylation, sparteine may have analgesic effects.<sup>[2]</sup>

### **[ Solvent ]**

Chloroform, Dichloromethane, Ethyl Acetate, DMSO, Acetone, etc.

### **[ HPLC Method ]**

Not data available.

### **[ Storage ]**

2-8°C, Protected from air and light, refrigerate or freeze.

### **[ References ]**

[1] Eichelbaum M, Spannbrucker N, Steincke B, *et al. Eur. J. Clin. Pharmacol.*, 1979, 16(3):183-7.

[2] Poulsen L, Brøsen K, Arendt-Nielsen L, *et al. Eur. J. Clin. Pharmacol.*, 1996, 51(3-4):289-95.

### **[ Contact ]**

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